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धानी के लिए आयाम  
( पहला पुनरीक्षण )

Dimensions for Stillages  
( First Revision )

ICS 53.040

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भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS  
मानक भवन, 9 बहादुर शाह ज़फर मार्ग, नई दिल्ली - 110002  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI - 110 002

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## FOREWORD

This Indian Standard ( First Revision ) was adopted by the Bureau of Indian Standards, after the draft finalized by the Earth Moving Equipment and Material Handling Sectional Committee had been approved by the Mechanical Engineering Division Council.

This Indian Standard will supersede IS 5387 : 1969.

Stillage's are a very flexible way of transporting goods. It's possible to adapt the pallet to work with many different needs within your warehouse.

Stillage's are also a very safe way of transporting goods without needing to load or unload them at regular intervals. That means saved time for your business, and a much safer working environment for your employees.

Usually, stillage's are stacked up on top of each other so that they use up less space than other forms of container. It's a good way of ensuring minimal risk of damage to the contents of the stillage, and without any risk of spillage disrupting your working environment.

Overall, this means that the time taken to load and unload your products is reduced.

This standard has been prepared to help the material handling by using stillages of standard dimensions which will enable the efficient use of standard trucks, such as stillage trucks.

The composition of the Committee responsible for the formulation of this standard is given in Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded-off value should be the same as that of the specified value in this standard.

*Indian Standard*  
**DIMENSIONS FOR STILLAGES**  
*( First Revision )*

**1 SCOPE**

**1.1** This standard covers the main dimensions of stillages which will enable easy and efficient transportation of goods by standard stillage trucks.

**2 TERMINOLOGY**

**2.1** For the purpose of this standard, the following definition shall apply.

**2.2 Stillage**

A stillage may be defined as an unitized load supporting platform designed primarily for horizontal movement of load and not for stacking one unit load directly on to another, consisting of a deck supported on legs or bearers with uninterrupted space between them so as to allow stillage truck to enter underneath the stillage and raise it off the ground sufficiently for transportation.

**3 DIMENSIONS AND TOLERANCES****3.1 Free Height of Stillage ( $A_1$ )**

The free height of the stillage taken under the deck is related to the maximum height  $A$  of the stillage truck devised to handle the stillage (*see* Fig 1).

$A_{max}$ , mm	160	180	230	280
$A_1$ , mm	$170^{+5}_0$	$190^{+5}_0$	$242^{+5}_0$	$295^{+10}_0$

**3.2 Minimum Free Width of the Stillage ( $B_1$ )**

The minimum free width,  $B_1$ , measured between the feet of stillage, is related to the maximum width,  $B$  of the elevating frame of the truck (*see* Fig. 1).

$B$ max, mm	425	450	470	560	600	620	700
$B_1$ min, mm	455	480	500	590	630	650	730

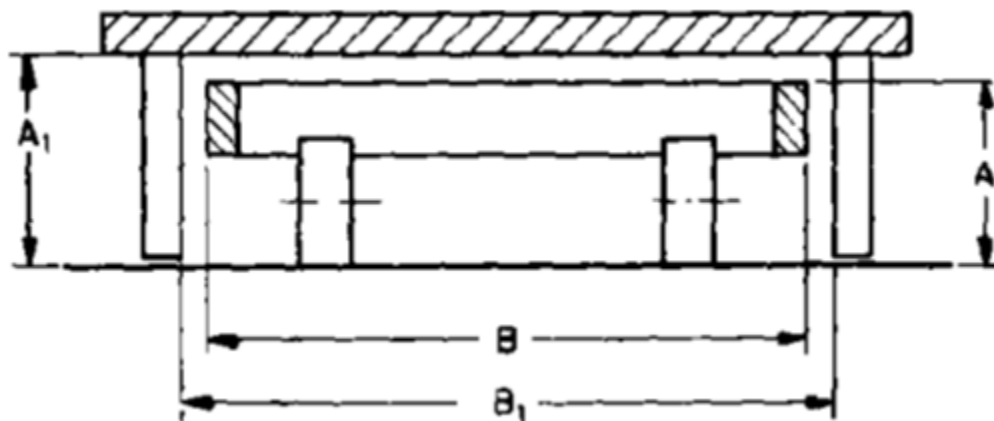


FIG 1 PRINCIPAL DIMENSIONS OF STILLAGE

# **INDIAN STANDARDS** **ON** **Material Handling Equipment**

<i>IS/ISO No.</i>	<i>Title</i>
IS 3971 : 2019 ISO 445 : 2013	Pallets for materials handling — Vocabulary ( <i>third revision</i> )
IS 4300 : 1989	Box pallets for through transit of goods — Specification ( <i>first revision</i> )
IS 4357 : 2017	Industrial trucks — Counter balanced trucks with mast — Verification of stability ( <i>third revision</i> )
IS 4660 : 1993	Powered industrial trucks — Terminology ( <i>third revision</i> )
IS 5008 (Part 1) : 1987	Data sheet for industrial towing trucks: Part 1 I.C. engine powered

**ANNEX A***(Foreword)***COMMITTEE COMPOSITION**

Earth Moving Equipment and Material Handling Sectional Committee MED 07

<i>Organization(s)</i>	<i>Representative(s)</i>
BEML Ltd, Bengaluru	SHRI V. SEKAR ( <i>Chairman</i> )
Airports Authority of India, New Delhi	SHRI K. S. KUNWAR SHRI JASPAL SINGH ( <i>Alternate</i> )
Automotive Research Association of India, Pune	SHRI A. AKBAR BADUSHA
BEML Ltd, Bengaluru	SHRI HEMANT KUMAR ( <i>Alternate</i> )
Bharat Coking Coal Ltd, Dhanbad	SHRI ARUN NAND SAHAY SHRI CHANDRA SHEKHAR S. I. ( <i>Alternate</i> )
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Caterpillar India Pvt Ltd, Chennai	SHRI K. REJI JOSE SHRI V. BHASKARAN ( <i>Alternate</i> )
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Directorate General Factory Advice Service and Labour Institutes, Mumbai	SHRI SUMIT ROY
Directorate General of Mines Safety, Dhanbad	SHRI D. B. NAYAK SHRI VIJAY YADAORAO BARAPATRE ( <i>Alternate</i> )

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Escorts Construction Equipment Ltd, Faridabad	SHRI FAIZ AHMAD MS RUPALI SHARMA (Young Professional)
Fact Engineering and Design Organization, New Delhi	SHRI R. K. PALLAI SHRI JUBY CHANDY ( <i>Alternate</i> )
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Indian Construction Equipment Manufacturers Association, New Delhi	SHRI K. V. KRISHNAMURTHY
Indian Institute of Technology (ISM), Dhanbad	SHRI L. A. KUMARASWAMIDHAS
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Mahindra Construction Equipment, Chakan	SHRI GOPALKRISHNA RAJENDRA
Manitou India Ltd, Greater Noida	SHRI ATUL K. SINGHAL

<i>Organization(s)</i>	<i>Representative(s)</i>
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*Member Secretary*

MS KHASHBOO KUMARI  
Scientist 'D' (MED), BIS





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This Indian Standard has been developed from Doc No.: MED 07 (17624).

### Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

## BUREAU OF INDIAN STANDARDS

### Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002  
Telephones: 2323 0131, 2323 3375, 2323 9402

Website: [www.bis.gov.in](http://www.bis.gov.in)

### Regional Offices:

	Telephones
Central : 601/A, Konnectus Tower -1, 6 <sup>th</sup> Floor, DMRC Building, Bhavbhuti Marg, New Delhi 110002	{ 2323 7617
Eastern : 8 <sup>th</sup> Floor, Plot No 7/7 & 7/8, CP Block, Sector V, Salt Lake, Kolkata, West Bengal 700091	{ 2367 0012 2320 9474
Northern : Plot No. 4-A, Sector 27-B, Madhya Marg, Chandigarh 160019	{ 265 9930
Southern : C.I.T. Campus, IV Cross Road, Taramani, Chennai 600113	{ 2254 1442 2254 1216
Western : Plot No. E-9, Road No.-8, MIDC, Andheri (East), Mumbai 400093	{ 2821 8093

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